



SEQUENCE LISTING

<110> Wary, Kishore, K.
Humtsoe, Joseph O.

<120> Uses of Vascular Endothelial Growth Factor
and Type I Collagen Inducible Protein (VCIP)

<130> D6563

<140> US 10/912,238

<141> 2004-03-29

<150> US 60/458,164

<151> 2003-03-27

<160> 36

<210> 1

<211> 15

<212> PRT

<213> Unknown

<220>

<221> CHAIN

<223> peptide used to raise anti-VCIP-cyto-C16 antibody

<400> 1

Leu Ser Pro Val Asp Ile Ile Asp Arg Asn Asn His His Asn Met
5 10 15

<210> 2

<211> 20

<212> PRT

<213> Unknown

<220>

<221> CHAIN
<223> peptide used to raise anti-VCIP-RGD antibody

<400> 2

Glu Gly Tyr Ile Gln Asn Tyr Arg Cys Arg Gly Asp Asp Ser Lys
5 10 15

Val Gln Glu Ala Arg
20

<210> 3
<211> 33
<212> DNA
<213> Artificial Sequence

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<223> forward primer for VCIP

<400> 3

ggaggatccc tcgcgcggca gccagcgcca tgc 33

<210> 4
<211> 25
<212> DNA
<213> Artificial Sequence

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<223> reverse primer for VCIP

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gtggcaccta catcatgttg tggtg 25

<210> 5
<211> 22
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<223> forward primer for human uPAR

<400> 5
cttcctgaaa tgcgtcaaca cc 22

<210> 6
<211> 22
<212> DNA
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<400> 6
tcatagctgg gaaaaactgag gc 22

<210> 7
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ggctgtgcta tccctgtacg cc 22

<210> 8
<211> 22
<212> DNA
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gggcagtgat ctccttctgc at 22

<210> 9
<211> 23
<212> DNA
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<400> 9
ggtctcctct gacttcaaca gcg 23

<210> 10
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<212> DNA
<213> Artificial Sequence

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<400> 10
ggtactttat tgatggtaca tgac 24

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<221> CHAIN
<223> a peptide containing RGD sequence

<400> 11
Gly Arg Gly Asp Ser Pro
5

<210> 12
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<212> PRT
<213> Unknown

<220>
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<223> HA-tag

<400> 12
Tyr Pro Tyr Asp Val Pro Asp Tyr Ala
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<211> 311
<212> PRT
<213> Unknown

<220>
<221> CHAIN
<223> human VCIP

<400> 13
Met Gln Asn Tyr Lys Tyr Asp Lys Ala Ile Val Pro Glu Ser Lys
5 10 15
Asn Gly Gly Ser Pro Ala Leu Asn Asn Pro Arg Arg Ser Gly
20 25 30
Ser Lys Arg Val Leu Leu Ile Cys Leu Asp Leu Phe Cys Leu Phe
35 40 45
Met Ala Gly Leu Pro Phe Leu Ile Ile Glu Thr Ser Thr Ile Lys
50 55 60

Pro	Tyr	His	Arg	Gly	Phe	Tyr	Cys	Asn	Asp	Glu	Ser	Ile	Lys	Tyr
					65				70					75
Pro	Leu	Lys	Thr	Gly	Glu	Thr	Ile	Asn	Asp	Ala	Val	Leu	Cys	Ala
					80				85					90
Val	Gly	Ile	Val	Ile	Ala	Ile	Leu	Ala	Ile	Ile	Thr	Gly	Glu	Phe
					95				100					105
Tyr	Arg	Ile	Tyr	Tyr	Leu	Lys	Lys	Ser	Arg	Ser	Thr	Ile	Gln	Asn
					110				115					120
Pro	Tyr	Val	Ala	Ala	Leu	Tyr	Lys	Gln	Val	Gly	Cys	Phe	Leu	Phe
					125				130					135
Gly	Cys	Ala	Ile	Ser	Gln	Ser	Phe	Thr	Asp	Ile	Ala	Lys	Val	Ser
					140				145					150
Ile	Gly	Arg	Leu	Arg	Pro	His	Phe	Leu	Ser	Val	Cys	Asn	Pro	Asp
					155				160					165
Phe	Ser	Gln	Ile	Asn	Cys	Ser	Glu	Gly	Tyr	Ile	Gln	Asn	Tyr	Arg
					170				175					180
Cys	Arg	Gly	Asp	Asp	Ser	Lys	Val	Gln	Glu	Ala	Arg	Lys	Ser	Phe
					185				190					195
Phe	Ser	Gly	His	Ala	Ser	Phe	Ser	Met	Tyr	Thr	Met	Leu	Tyr	Leu
					200				205					210
Val	Leu	Tyr	Leu	Gln	Ala	Arg	Phe	Thr	Trp	Arg	Gly	Ala	Arg	Leu
					215				220					225
Leu	Arg	Pro	Leu	Leu	Gln	Phe	Thr	Leu	Ile	Met	Met	Ala	Phe	Tyr
					230				235					240
Thr	Gly	Leu	Ser	Arg	Val	Ser	Asp	His	Lys	His	His	Pro	Ser	Asp
					245				250					255
Val	Leu	Ala	Gly	Phe	Ala	Gln	Gly	Ala	Leu	Val	Ala	Cys	Cys	Ile
					260				265					270
Val	Phe	Phe	Val	Ser	Asp	Leu	Phe	Lys	Thr	Lys	Thr	Thr	Leu	Ser
					275				280					285
Leu	Pro	Ala	Pro	Ala	Ile	Arg	Lys	Glu	Ile	Leu	Ser	Pro	Val	Asp
					290				295					300
Ile	Ile	Asp	Arg	Asn	Asn	His	His	Asn	Met	Met				
					305				310					

<210>	14
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<212>	PRT

<213> Unknown

<220>

<221> CHAIN

<223> lipid phosphatase domain of human VCIP

<400> 14

Asp Ile Ala Lys Val Ser Ile Gly Arg Leu Arg Pro His Phe Leu
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Ser Val Cys

<210> 15

<211> 18

<212> PRT

<213> Unknown

<220>

<221> CHAIN

<223> a rat peptide containing lipid
phosphatase domain

<400> 15

Asp Ile Ala Lys Tyr Ser Ile Gly Arg Leu Arg Pro His Phe Leu
5 10 15

Ala Val Cys

<210> 16

<211> 18

<212> PRT

<213> Unknown

<220>

<221> CHAIN

<223> a mouse peptide containing lipid
phosphatase domain

<400> 16

Asp Ile Ala Lys Tyr Thr Ile Gly Ser Leu Arg Pro His Phe Leu

5

10

15

Ala Ile Cys

<210> 17
<211> 18
<212> PRT
<213> Unknown

<220>
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<223> a human peptide containing lipid
phosphatase domain

<400> 17

Asp Leu Ala Lys Tyr Met Ile Gly Arg Leu Arg Pro Asn Phe Leu
5 10 15

Ala Val Cys

<210> 18
<211> 18
<212> PRT
<213> Unknown

<220>
<221> CHAIN
<223> a Drosophila peptide containing lipid
phosphatase domain

<400> 18

Asn Ile Ala Lys Tyr Ser Ile Gly Arg Leu Arg Pro His Phe Tyr
5 10 15

Thr Leu Cys

<210> 19
<211> 18
<212> PRT
<213> C. elegans

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<221> CHAIN

<223> a C. elegans peptide containing lipid
phosphatase domain

<400> 19

Ile Val Thr Lys His Val Val Gly Arg Leu Arg Pro His Phe Leu
5 10 15

Asp Val Cys

<210> 20

<211> 10

<212> PRT

<213> Unknown

<220>

<221> CHAIN

<223> a peptide containing RGD sequence

<400> 20

Asn Tyr Arg Cys Arg Gly Asp Asp Ser Lys
5 10

<210> 21

<211> 10

<212> PRT

<213> Unknown

<220>

<221> CHAIN

<223> a peptide containing a mutated RGD sequence

<400> 21

Asn Tyr Arg Cys Arg Ala Asp Asp Ser Lys
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<210> 22
<211> 10
<212> PRT
<213> Unknown

<220>
<221> CHAIN
<223> a peptide containing a mutated RGD sequence

<400> 22

Asn Tyr Arg Cys Arg Gly Glu Asp Ser Lys
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<212> PRT
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<223> a peptide containing RGD sequence

<400> 23

Asn Tyr Arg Cys Arg Gly Asp Asp Ser Lys Val Gln Glu
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<223> forward primer for phosphatase inactive
or dead form of PAP2b

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gccggatcca tgcaaaaacta caagtacgac 30

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<210> 25
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<212> DNA
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<223> reverse primer for phosphatase inactive
or dead form of PAP2b

<400> 25

gaggagccag gcgccctatg gacactgcgg caat 34

<210> 26
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<212> DNA
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or dead form of PAP2b

<400> 26

tgccgcagtg tccatagggc gcctggctcc tca 33

<210> 27
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<212> DNA
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or dead form of PAP2b

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gcgatcgatc tacatcatgt tgtg 24

<210> 28
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<223> forward primer for N-terminal PAP2b truncation

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gccggatcca tgcaaaagcg ggtgctg 27

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<400> 29

ggtatcgata agtttctaca tcattg 25

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gccggatcca tgcaaaacta caagtacgac 30

<210> 31
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<223> reverse primer for C-terminal PAP2b truncation

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<223> a peptide containing a RGD sequence

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Cys Arg Gly Asp Asp Ser
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<223> sense primer for human Alu sequence

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gttgcccaag ttggagtgca atgg 24

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acaatggctc acgcctgtaa tccc 24

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tggagtctac tggtgtcttc accaccatg 29

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<223> anti-sense primer for mouse GAPDH

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gcaggagaca acctggtcct cagtg 25